



# Annual Report 2014

The Melbourne School of Engineering Foundation

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# CONTENTS

A Brief History	2
2014 Board of Management	3
Dean's Report	4
Campaign Priorities	5
Strategic Growth of MSE	6
Melbourne Accelerator Program (MAP)	7
Chair's Report	8
MSE Foundation Scholarships	9
Jack Wynhoven Scholarship Fund	10
Len Stevens Scholarship Appeal	10
Annual Appeal – Telethon	11
Membership	11
Audited MSEF Financial Statement - Dec 2014	12

# A Brief History

From 1980 considerations had been given to the fact that 1982 would be the centenary of William Kernot's appointment as Professor of Engineering and that 1983 would be the centenary of the award of the first Engineering degree.

At the early meeting held in 1981, the Dean reported to the then faculty regarding discussions with the ViceChancellor about celebrating the centenary of the award of the first Engineering Degree in 1883.

At the first formal Centenary Planning Meeting, held on 14th 1981, the decision was made to hold an Appeal for \$2.5m over the period of 5 years. The proposal to Council was for an Engineering Centenary Appeal, which included the setting up of an Engineering Foundation, under the control of a Board of Management, which would be drawn from Alumni.

On the 4th October, 1981, Council approval was given to the proposal and an Interim Board of Management, under the Chairmanship of Sir Ian McLennan was established. The Board met early in 1982 and from that meeting the appropriate legislation was prepared and soon afterwards the Council gave its approval.

The official launch of MUEF previously known as Melbourne University Engineering School Centenary Foundation Appeal was held at Wilson Hall on Tuesday 26th April 1983. The launch was conducted under an academic procession, Premier; John Cain MP officially launched the Appeal. The Chancellor, Professor Emeritus Sir Roy Douglas Wright, Dean of Engineering, Sir Ian McLennan and Sir John Holland all spoke at this momentous ceremony.

Subsequently, the Foundation has taken a number of initiatives to support the work and development of Melbourne School of Engineering, its staff and its students. This includes a series of highly successful Ian McLennan Orations, the establishment of the John Holland Engineering Management Fund, support for the writing of a History of the School of Engineering, the establishment of an Engineering bequest society and scholarships, prizes and funding for a wide range of student focused activities.

# 2014 Board of Management

## Chair:

### **Mrs Christine Tursky Gordon**

BE(Hons)(Melb), BA (Melb), MMktg(MBS),  
MBA (Chifley)

## Secretary

Wendy Wen Wen Zhao

## Members:

### **Mr Nick Callinan**

BE (Civil) (Melb), MBA (MBS)

### **Mr Ian Cochran<sup>1</sup>**

BE (Melb), MIEAust, CPEng

### **Professor Iven Mareels**

ir (Gent), PhD (ANU), NER, FIEAust, FIEEEE, FTSE,  
CPEng, Eng Exec

### **Mr John North**

BE (Monash), MEngSc (Melb), MBA (MBS)

### **Professor Peter Scales**

PhD (Melb), BSc (Hons) (Melb) FICHEM, FIEAust

### **Professor Geoff Stevens**

BE (Chem) (RMIT), PhD (Melb), FTSE, FICHEM,  
FAusIMM

### **Ms Leanne Taylor**

BSc (Deakin) PostGrad Dip Dietetics (Deakin) BHA  
(UNSW) MHLthSc (LaTrobe)

### **Professor Doreen Thomas**

BSc (Hons)(Wits), MSc (Oxon), PhD (Oxon), FTSE,  
FIEAust

### **Mr Thomas Werner<sup>2</sup>**

BGeomE (Melb), BSc (Melb)

### **Mrs Liz Westcott<sup>3</sup>**

BCom (Melb), BE (CivEng) (Hons) (Melb)

### **Dr Jack Wynhoven AM**

Dip CE (Gordon), BE (Melb), MEngSc (Alberta),  
PhD (Alberta)

<sup>1</sup> Resigned in August 2014    <sup>2</sup> Term ended June 2014    <sup>3</sup> Resigned in August 2014

# Dean's Report

## Professor Iven Mareels

Philanthropically, 2014 has been an exceptional year for the Melbourne School of Engineering (MSE) and we are grateful for the support of our donors.

Whether it is through the University's Annual Appeal or through independent gifts in support of specific programs and projects within the School, each gift and each donor is deeply appreciated and contributes to the overall success of Believe — The Campaign for The University of Melbourne.

In an uncertain political and financial environment, generous philanthropic support to the School has strengthened our research capabilities, improved our facilities and provided numerous scholarships that have alleviated the burden of rising costs for many deserving students.

Staff and students at MSE are grateful for the support of the MSE Foundation and for the support of all our generous donors. It is once again our sincere pleasure to offer you our thanks along with this update.



# Campaign Priorities

MSE was established over 150 years ago to train the engineers and leaders who built Melbourne. Early success provided opportunities to expand their service to Victoria and throughout Australia. Today, MSE enjoys recognition as the top engineering school in Australia and is ranked number 32 in the world.

The inspirational goals driving our efforts are to:

- Produce leaders with a mastery of technology who can engage with those who are beneficiaries of it and to implement solutions that make our lives better.
- Create wealth, a higher standard of living and vibrant economic growth through entrepreneurship and innovation around new and emerging technologies.
- Transform the quality of life across the world in three areas of focus: sustainability and resilience, health and well-being, and the understanding of our place and purpose in the world.

**The Melbourne School of Engineering** lists the following **campaign priorities** as part of *Believe: The Campaign for the University of Melbourne*:

Teaching and Learning:

- Recruit students from the top 1% of all engineering applicants in the world.
- Provide extraordinary student experiences with enhanced extra-curricular activities to develop leadership, teamwork and job skills.
- Encourage women, indigenous peoples and other underrepresented minorities to choose a career in engineering, science, mathematics or technology.
- Integrate labs, instruction and research in ways that allow students to practice the “art” of engineering.

## **Research and Research Training:**

Focus research in three general areas where critical mass, expertise and a multi-disciplinary approach will yield greatest results:

- Optimization of resources and infrastructure (water-energy-environment, disaster management, public safety, food safety, IT, etc.)
- Convergence of engineering, materials and ICT with the life sciences (bionics, tissue repair, epilepsy treatment, nano-medicine, e-health, health-infomatics, aging well)
- Networks and data in society (Institute for Broadband Enabled Society, Centre for Energy-Efficient Telecommunications, Centre for the Social Natural Interfaces, measure-model-manage on a geo-scale)

## **Engaging our Communities:**

- To provide space for this expansion and the planned collaborative activities, we plan to reuse and renovate the former Royal Women’s Hospital in ways that demonstrate leadership and best practices in sustainable urban development. Activities include:
- Community interaction with technology to learn how technology improves lives and inspires youth to study engineering as a career.
- Collaboration with government, academics, industry and community leaders to develop robust solutions to grand challenges.
- Entrepreneurship and innovation with programs such as the Melbourne Accelerator Program (MAP).
- Engage with our present and past students, staff and alumni to make their association with MSE a lifetime relationship.

# Strategic Growth of MSE

The School is looking to double its student and academic numbers by 2019 as compared to 2012 numbers. and enhance our infrastructure to ensure world class standards.

The Parkville campus will become the teaching and research hub for MSE, while the Carlton Campus will become the door to an Industry Engineering precinct. As of two weeks ago the School of Engineering became the strategic priority of the University who have committed significant funds for this project.

To address the needs of today and the strategic growth of MSE, a strategy has been developed in conjunction with the Melbourne Architects

DesignInc Pty Ltd. The strategy outlines a pathway to reconfigure, refurbish, demolish and build on the Parkville Campus to best utilise space to provide flexible, multipurpose accommodation for staff and students. The investment in new spaces that will better support teaching, research and broader engagement with the community will ensure MSE keeps pace with improvements already made by our competitors. Along with revitalising the Engineering Precinct and giving it a proud sense of identity, being a foundational stakeholder in the Carlton Connect Precinct will assist in allowing MSE to align itself with important research partners, industry and alumni.

# Melbourne Accelerator Program (MAP)

MAP was established in 2012 by the Faculty of Engineering to promote a culture of entrepreneurship.

Recently ranked 13th in the world in UBI Index's ranking of University start-up incubators, MAP is the preeminent entrepreneurship program in Australia. MAP offers support through a range of workshops, programs and events for entrepreneurs at all stages of development. These activities are designed to enhance the quality of the entrepreneurial talent pool and include MAP Public Forums, the MAP Master Class Series, Startup Velocity, Escape Velocity and Specialist Feeder Programs.

The MAP14 Entrepreneurial Fellows are:

## **Pathobin**

Pathology photography image hosting service for pathologists, scientists, surgeons and students. Pathobin digitises microscopic slides to improve patient diagnosis, cancer research and education and allows for crowd-sourced research.

## **xLabs**

Has developed the first eye-gaze tracking solution that works with an ordinary webcam, doesn't restrict your movement or need continuous recalibration.

## **Brosa**

Is a marketplace helping industrial designer's manufacture and sell unique homeware products to consumers. Industrial designers turn their real life ideas into products and make money by selling to a community of homeware lovers.

## **SCANN3D**

Provides a 3D visualisation service that pioneers the next generation of real estate marketing content.

## **Financial Ask**

Helps you to make the correct financial decisions. By connecting qualified advisors with consumers it provides financial advice for those who could not afford it previously.

## **Quanticare Technologies**

Builds healthcare solutions which enable data-driven clinical encounters through the development of novel monitoring and tracking technology. For example, the first product developed by Quanticare is a sensor enabled walking frame which facilitates better mobility and prevents falls in the elderly.

Top startups are awarded Entrepreneurial Fellowships through our competitive selection process which grants access to the MAP Startup Accelerator. Entrepreneurial Fellowships include \$20,000 funding, access to office space and unparalleled networking opportunities, mentoring and the stamp of approval from the University of Melbourne.

Once again it has been an interesting year of development and change for the University and the School of Engineering. I would like to sincerely thank the Board for their strong connection and involvement in all MSE activities. I look forward working with you all again next year, and together building on our achievements. .

# Chair's Report

## **Mrs Christine Tursky Gordon**

Education is a powerful force in any society. It opens doors and creates opportunities for young people, and it benefits all of us through the development of skills, new ideas, and innovations. In 2014 the Melbourne School of Engineering Foundation continued its work to support engineering education, to strengthen the School's relationships with industry, alumni and other groups, and to continue the traditions of philanthropy that formed such a strong part of the Foundation's roots in the 1980's.

The Foundation's support for the Melbourne School of Engineering would not be possible without our alumni, friends, and the wider engineering community. The generosity of all our donors benefits students and the Melbourne School of Engineering in so many different ways.

To all our donors, volunteers, industry partners and supporters: thank you for your support, and for helping to build a bright future for the Melbourne School of Engineering.



# MSE Foundation Scholarships

As in the previous three years, the MSE Foundation has continued to offer scholarship support to students entering the professional Masters degrees offered by the School. The funds are available due to the generosity of our community in establishing and contributing to the MSE Foundation over the past three decades including a specific fundraising appeal from 2008 through to 2010.

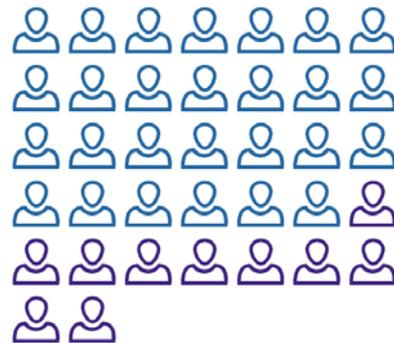
Scholarships are available to both local and international students, and are awarded on the

basis of academic merit or to support students who have experienced disadvantage. We were pleased to award 38 MSE Foundation Scholarships in 2014 which brings our total number of scholarships awarded through the program to 146.

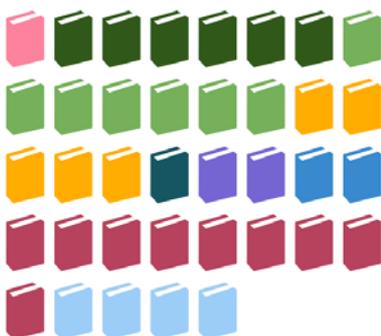
This support has a tremendous impact on the students concerned and we continue to be so grateful for the contributions of our alumni and friends to this program.



- Master of Engineering
- Master of Information Systems
- Master of Information Technology
- Master of Spatial Information Science



- Male
- Female



- Software
- Civil
- Chemical
- Structural
- Mechanical
- Mechatronics
- Spatial
- CIS
- Electrical



- China
- South Africa
- Malaysia
- India
- Mexico
- Taiwan
- Thailand
- Indonesia
- Australia

# Len Stevens Scholarship Appeal

Established in honour of Emeritus Professor Leonard Stevens AM, former Dean of Engineering (1979-1988), the Len Stevens Scholarship is designed to give exceptional students the opportunity to broaden their experience.

Through the Scholarship, generations of talented graduate students will have opportunities to enrich their studies by undertaking an extra-curricular project of their choice either locally or internationally. The School set the target of raising \$500,000 in three years to establish this prestigious Scholarship in perpetuity.

The year commenced on a spectacular note, with the establishment of the Len Stevens Scholarship in perpetuity. The Appeal to establish the Scholarship ran from 2011 through until 2013; we were delighted that enough support was generated to ensure that the Len Stevens Scholarship will continue to offer transformational opportunities to deserving students for generations to come.

Faezeh Marzbanrad is the third Len Stevens Scholar, and the School's first female winner of the prize. As an Electrical Engineering PhD student, Faezeh will work with a top research team in the USA, looking at improved methods for evaluating foetal wellbeing. Faezeh's research is looking into improved and cost-effective methods of foetal heart assessment in order to apply these techniques in developing countries, where foetal mortality is high. Faezeh will travel to the Children's National Health System in Washington DC, in order to work with a leading research team in the area of foetal heart assessment. She said the scholarship would give her an opportunity to view the latest technology in the field and to collaborate with world leading researchers, which will be invaluable for her future work.

It has been a pleasure to work alongside our dedicated Board members and the Advancement staff at the MSE in 2014, and I thank all of them for their generosity and hard work. The coming year will bring some exciting opportunities for MSE and the Foundation and I look forward to an interesting and rewarding year in 2015.

## Jack Wynhoven Scholarship Fund

As the Chair of the Foundation, I am delighted to announce the establishment of a new scholarship to assist future engineers to embark on their dream careers, regardless of their financial circumstances. The Jack Wynhoven Scholarship is being established in perpetuity through a generous commitment from Dr Jack Wynhoven AM (BE(Civil) 1964) and his family.

Jack has been serving on the MSE Foundation Board since 2010. His experience and perspective are greatly valued by board members and the MSE. Through their generosity in establishing a scholarship in perpetuity, Jack and his family will have an ongoing and significant impact on engineering education and will create opportunities for future students.

The inaugural scholarship will be awarded in 2016, to a Master of Engineering student in financial need.

## Annual Appeal – Telethon

During the 2014 telethon, a total of 726 MSE alumni were contacted. 569 alumni had conversations with our student telethon callers, and 23 made a gift towards MSE

During the calling period, we were able to raise a total of \$3,765 which largely went to supporting the Schools highest priority to successfully close the Lens Stevens Scholarship Appeal.

As the Chair of the MSE Foundation, I attended one of the calling days to speak to our student callers, and make some calls myself. I am very thankful to all the dedicated student callers and staff members who make the Telethon possible.

## Membership

Over the course of 2014 we said farewell to three of our Board members due to work commitments and overseas postings. Ian Cochran, Liz Westcott and Thomas Werner have been (and continue to be) long-term supporters of the Melbourne School of Engineering Foundation. Their work has strengthened the links between MSE and industry, deepened connections with our alumni community, and helped the Foundation support students and engineering education.

Ian Cochran was a board member for four years, and Liz Westcott and Thomas Werner for three years. Board members donate their time to the Foundation as well as supporting the MSE in many ways. The work of the MSE Foundation would not be possible without the commitment of our pro bono board members. I extend my sincere thanks for the support of Ian, Liz and Thomas over the past years and look forward to their continuing involvement with MSE.

# Audited MSE Foundation Financial Statement - Dec 2014



## MELBOURNE SCHOOL OF ENGINEERING FOUNDATION

### Audit Opinion

According to the information at my disposal, the accompanying Financial Statement has been properly drawn up so as to present fairly the financial position of the Foundation for the year ended 31 December 2014.

Peter McGrath  
Associate Director  
Audit Assurance

18 February 2015

### Statement of the Board of Management

In the opinion of the Board Management

- (a) the accounts of the Foundation set out in the attached Financial Statement are drawn up so as to give a true and fair view of the state of affairs as at 31 December 2014 and the results for the year ended on that date;
- (b) there are reasonable grounds to believe that Foundation will be able to meet its debts as and when they fall due.

Signed at Melbourne on the \_\_\_\_\_ day of \_\_\_\_\_ 2015

In accordance with a resolution of the Board of Management.

Chair

Member of the Board

The University of Melbourne  
 Title: Melbourne School of Engineering Foundation  
 Project no.: 049060  
 Regulation: UTR7.128  
 Reporting Date: 31-Dec-14

Financial Statement for the year ended 31 December 2014

2013 AUD(\$)		2014 AUD(\$)
1,187,209.43	Carry-forward Cash Balance	1,275,320.60
-	Transfer to Capital	-
<b>1,187,209.43</b>	<b>Cash Balance after Capital Transfer</b>	<b>1,275,320.60</b>
	<b>Operating Income:</b>	
25,518.22	External Income from Trustees	
	Margot Sophie Cassidy Estate Income transfer	17,971.00
	Walter Harold Taylor & Esma Jean Taylor Memorial Fund	
	Income	
33,474.43	transfer	36,347.00
27,103.29	Interest Distribution	24,343.47
464,110.58	Unitised Pool Distribution	466,619.36
-12,280.35	Investments Administrative Fee	-12,338.38
<b>537,926.17</b>	<b>Net Annual Income</b>	<b>532,942.45</b>
	<b>Non-Operating Income:</b>	
7,415.00	Donations	4,670.00
7,415.00	Non-Operating Income	4,670.00
<b>545,341.17</b>	<b>Total Income</b>	<b>537,612.45</b>
	<b>Expenditure:</b>	
-	Salary & On-costs	34,693.13
355,000.00	Postgraduate Scholarship	494,268.20
-1,225.00	Payroll Tax	-
103,455.00	Internal - Gift to Len Stevens Scholarship Appeal	-
	Internal - Infrastructure investment to South Side of Old	
	Metallurgy	54,318.00
	Internal - Support the provision and enhancement of	
	physical facilities for MAP program participants	33,474.43
457,230.00	<b>Total Expenditure</b>	<b>616,753.76</b>
<b>88,111.17</b>	<b>Income less Expenditure</b>	<b>-79,141.31</b>
<b>1,275,320.60</b>	<b>Accumulated Cash Balance</b>	<b>1,196,179.29</b>
	<b>Statement of Capital</b>	
	<b>Capital:</b>	
3,029,730.25	Pool Unit Revaluation	3,581,602.04
7,952,673.40	Restricted Capital	7,952,673.40
-	Unrestricted Capital	-
<b>10,982,403.65</b>	<b>Total Capital</b>	<b>11,534,275.44</b>
	<b>Represented by Statement of Assets at Book Value</b>	
7,751,008.29	Trust Investment Pool Holding (Stat)-(No of Units)	7,751,008.29
10,982,403.65	Trust Investment Pool Holding	11,534,275.44
1.42	Current \$ Value per unit held	1.49
	<b>Total Assets</b>	
1,275,320.60	Accumulated Cash Balance	1,196,179.29
10,982,403.65	Capital	11,534,275.44
<b>12,257,724.25</b>	<b>Total Accumulated Cash Balance &amp; Capital</b>	<b>12,730,454.73</b>

**Internal Audit**

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